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**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/348,658**DATE: 05/25/95  
TIME: 10:16:42**INPUT SET: S3868.raw**

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

1                   **SEQUENCE LISTING**  
23     (1)    General Information:  
45        (i) APPLICANT: Eaton, Dan L.  
6                    de Sauvage, Frederic J.  
78        (ii) TITLE OF INVENTION: MPL LIGAND  
910      (iii) NUMBER OF SEQUENCES: 20  
1112      (iv) CORRESPONDENCE ADDRESS:  
13        (A) ADDRESSEE: Genentech, Inc.  
14        (B) STREET: 460 Point San Bruno Blvd  
15        (C) CITY: South San Francisco  
16        (D) STATE: California  
17        (E) COUNTRY: USA  
18        (F) ZIP: 94080  
1920      (v) COMPUTER READABLE FORM:  
21        (A) MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk  
22        (B) COMPUTER: IBM PC compatible  
23        (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
24        (D) SOFTWARE: patin (Genentech)  
2526      (vi) CURRENT APPLICATION DATA:  
27        (A) APPLICATION NUMBER: 08/348658  
28        (B) FILING DATE: 02-DEC-1994  
29        (C) CLASSIFICATION:  
3031      (vii) PRIOR APPLICATION DATA:  
32        (A) APPLICATION NUMBER: 08/185607  
33        (B) FILING DATE: 21-JAN-1994  
3435      (vii) PRIOR APPLICATION DATA:  
36        (A) APPLICATION NUMBER: 08/176553  
37        (B) FILING DATE: 03-JAN-1994  
3839      (viii) ATTORNEY/AGENT INFORMATION:  
40        (A) NAME: Winter, Daryl B.  
41        (B) REGISTRATION NUMBER: 32,637  
42        (C) REFERENCE/DOCKET NUMBER: 871P1C1  
4344      (ix) TELECOMMUNICATION INFORMATION:  
45        (A) TELEPHONE: 415/225-1249  
46        (B) TELEFAX: 415/952-9881**ENTERED**

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RAW SEQUENCE LISTING  
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47 (C) TELEX: 910/371-7168

48

49 (2) INFORMATION FOR SEQ ID NO:1:

50

51 (i) SEQUENCE CHARACTERISTICS:

52 (A) LENGTH: 20 amino acids

53 (B) TYPE: amino acid

54 (D) TOPOLOGY: linear

55

56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

57

58 Ser Pro Ala Pro Pro Ala Cys Asp Pro Arg Leu Leu Asn Lys Leu  
59 1 5 10 15

60

61 Leu Arg Asp Asp His

62 20

63

64 (2) INFORMATION FOR SEQ ID NO:2:

65

66 (i) SEQUENCE CHARACTERISTICS:

67 (A) LENGTH: 26 amino acids

68 (B) TYPE: amino acid

69 (D) TOPOLOGY: linear

70

71 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

72

73 Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu  
74 1 5 10 15

75

76 Leu Arg Asp Ser His Val Leu His Ser Arg Leu

77 20 25 26

78

79 (2) INFORMATION FOR SEQ ID NO:3:

80

81 (i) SEQUENCE CHARACTERISTICS:

82 (A) LENGTH: 42 amino acids

83 (B) TYPE: amino acid

84 (D) TOPOLOGY: linear

85

86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

87

88 Leu Leu Leu Val Val Met Leu Leu Leu Thr Ala Arg Leu Thr Leu  
89 1 5 10 15

90

91 Ser Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys  
92 20 25 30

93

94 Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu  
95 35 40 42

96

97 (2) INFORMATION FOR SEQ ID NO:4:

98

99 (i) SEQUENCE CHARACTERISTICS:

**RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/348,658**DATE: 05/25/95  
TIME: 10:16:48**INPUT SET: S3868.raw**

100                   (A) LENGTH: 390 bases  
101                   (B) TYPE: nucleic acid  
102                   (C) STRANDEDNESS: single  
103                   (D) TOPOLOGY: linear  
104  
105                 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:  
106  
107  
108                 GAATTCTGG AATACCAGCT GACAATGATT TCCTCCTCAT CTTTCAACCT 50  
109  
110  
111                 CACCTCTCCT CATCTAAGAA TTGCTCCTCG TGGTCATGCT TCTCCTAACT 100  
112  
113  
114                 GCAAGGCTAA CGCTGTCCAG CCCGGCTCCT CCTGCTTGTG ACCTCCGAGT 150  
115  
116  
117                 CCTCAGTAAA CTGCTTCGTG ACTCCCAGT CCTTCACAGC AGACTGGTGA 200  
118  
119  
120                 GAACTCCCAA CATTATCCCC TTTATCCGCG TAACTGGTAA GACACCCATA 250  
121  
122  
123                 CTCCCAGGAA GACACCATCA CTTCCCTCTAA CTCCTTGACC CAATGACTAT 300  
124  
125  
126                 TCTTCCCATA TTGTCCCCAC CTACTGATCA CACTCTCTGA CAAGAATTAT 350  
127  
128  
129                 TCTTCACAAT ACAGCCCCCA TTTAAAAGCT CTCGTCTAGA 390  
130  
131  
132  
133                 (2) INFORMATION FOR SEQ ID NO:5:  
134  
135                 (i) SEQUENCE CHARACTERISTICS:  
136                   (A) LENGTH: 390 bases  
137                   (B) TYPE: nucleic acid  
138                   (C) STRANDEDNESS: single  
139                   (D) TOPOLOGY: linear  
140  
141                 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:  
142  
143  
144                 CTTAAGGACC TTATGGTCGA CTGTTACTAA AGGAGGAGTA GAAAGTTGGA 50  
145  
146  
147                 GTGGAGAGGA GTAGATTCTT AACGAGGAGC ACCAGTACGA AGAGGATTGA 100  
148  
149  
150                 CGTTCCGATT GCGACAGGTC GGGCCGAGGA GGACGAACAC TGGAGGCTCA 150  
151  
152

**RAW SEQUENCE LISTING  
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TIME: 10:16:51**INPUT SET: S3868.raw**

153     GGAGTCATTG GACGAAGCAC TGAGGGTACA GGAAGTGTG TCTGACCACT 200  
154  
155  
156     CTTGAGGGTT GTAATAGGGG AAATAGGCAC ATTGACCATT CTGTGGGTAT 250  
157  
158  
159     GAGGGTCCTT CTGTGGTAGT GAAGGAGATT GAGGAACCTGG GTTACTGATA 300  
160  
161  
162     AGAAGGGTAT AACAGGGGTG GATGACTAGT GTGAGAGACT GTTCTTAATA 350  
163  
164  
165     AGAAAGTGT TA TGTCGGCGT AAATTTCGA GAGCAGATCT 390  
166  
167  
168  
169     (2) INFORMATION FOR SEQ ID NO:6:  
170

171       (i) SEQUENCE CHARACTERISTICS:  
172           (A) LENGTH: 25 amino acids  
173           (B) TYPE: amino acid  
174           (D) TOPOLOGY: linear  
175

176       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

177  
178     Ser Pro Ala Pro Pro Ala Cys Asp Pro Arg Leu Leu Asn Lys Leu  
179               1               5               10               15  
180  
181     Leu Arg Asp Asp His Val Leu His Gly Arg  
182               20               25  
183

184     (2) INFORMATION FOR SEQ ID NO:7:  
185

186       (i) SEQUENCE CHARACTERISTICS:  
187           (A) LENGTH: 27 amino acids  
188           (B) TYPE: amino acid  
189           (D) TOPOLOGY: linear  
190

191       (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

192  
193     Ser Pro Ala Pro Pro Ala Cys Asp Pro Arg Leu Leu Asn Lys Leu  
194               1               5               10               15  
195  
196     Leu Arg Asp Asp His Ser Val Leu His Gly Arg Leu  
197               20               25               27  
198

199     (2) INFORMATION FOR SEQ ID NO:8:  
200

201       (i) SEQUENCE CHARACTERISTICS:  
202           (A) LENGTH: 25 amino acids  
203           (B) TYPE: amino acid  
204           (D) TOPOLOGY: linear  
205

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206 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:  
207  
208 Ser Pro Ala Pro Pro Ala Xaa Asp Pro Arg Leu Leu Asn Lys Leu  
209 1 5 10 15  
210  
211 Leu Arg Asp Asp His Val Leu His Gly Arg  
212 20 25  
213  
214 (2) INFORMATION FOR SEQ ID NO:9:  
215  
216 (i) SEQUENCE CHARACTERISTICS:  
217 (A) LENGTH: 14 amino acids  
218 (B) TYPE: amino acid  
219 (D) TOPOLOGY: linear  
220  
221 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:  
222  
223 Xaa Pro Ala Pro Pro Ala Xaa Asp Pro Arg Leu Xaa Asn Lys  
224 1 5 10 14  
225  
226 (2) INFORMATION FOR SEQ ID NO:10:  
227  
228 (i) SEQUENCE CHARACTERISTICS:  
229 (A) LENGTH: 20 bases  
230 (B) TYPE: nucleic acid  
231 (C) STRANDEDNESS: single  
232 (D) TOPOLOGY: linear  
233  
234 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:  
235  
236  
237 CCNGCNCCNC CNGCNTGYGA 20  
238  
239  
240  
241 (2) INFORMATION FOR SEQ ID NO:11:  
242  
243 (i) SEQUENCE CHARACTERISTICS:  
244 (A) LENGTH: 21 bases  
245 (B) TYPE: nucleic acid  
246 (C) STRANDEDNESS: single  
247 (D) TOPOLOGY: linear  
248  
249 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:  
250  
251  
252 NCCRTGNARN ACRTGRTCRT C 21  
253  
254  
255  
256 (2) INFORMATION FOR SEQ ID NO:12:  
257  
258 (i) SEQUENCE CHARACTERISTICS:

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**SEQUENCE VERIFICATION REPORT  
PATENT APPLICATION US/08/348,658**

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***INPUT SET: S3868.raw***

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: 08/348658